



SEQUENCE LISTING

RECEIVED
OCT 11 2001
TECH CENTER 1600/2900

<110> Fischer, Peter Martin
Zhelev, Nikolai

<120> Transport Vectors

<130> CCI-010

<140> 09/438,460

<141> 1999-11-12

<150> GB 9825000.4

<151> 1998-11-13

<150> GB 9825001.2

<151> 1998-11-13

<150> GB 9902525.6

<151> 1999-02-04

<150> GB 9902522.3

<151> 1999-02-04

<150> GB 9914578.1

<151> 1999-06-22

<150> PCT/GB99/03750

<151> 1999-11-11

<160> 66

<170> PatentIn Ver. 2.1

<210> 1

<211> 16

<212> PRT

<213> Drosophila melanogaster

<400> 1

Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

B31

<210> 2
 <211> 7
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<220>

<223> Description of Artificial Sequence: Synthetic sequence

<220>

<221> MOD_RES

<222> (7)

<223> AMIDATION; the carboxy terminal lysine residue may have its carboxyl group converted into an carboxamide group.

<400> 2

Arg Arg Met Lys Trp Lys Lys
 1 5

<210> 3

<211> 7

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic sequence

<400> 3

Arg Arg Met Trp Lys Lys Lys
 1 5

<210> 4

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<222> (3)

<223> Xaa is norleucine ornithine

<220>

<223> Description of Artificial Sequence: Synthetic sequence

<400> 4

Arg Arg Xaa Lys Trp Lys Lys
 1 5

B31

<210> 5
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<220>
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 sequence

<400> 5
 Arg Arg Xaa Trp Lys Lys Lys
 1 5

<210> 6
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<220>
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<400> 6
 Asn Arg Arg Met Lys Trp Lys Lys
 1 5

<210> 7
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<400> 7
 Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5

B31

<210> 8
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<400> 8
 Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10

<210> 9
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<220>
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<400> 9
 Lys Arg Met Lys Trp Lys Lys
 1 5

<210> 10
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<220>
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<400> 10
 Arg Lys Met Lys Trp Lys Lys
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<210> 11
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<400> 11
 Arg Arg Glu Lys Trp Lys Lys
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B31

<210> 12
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<220>
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sequence

<400> 12
Arg Arg Gln Lys Trp Lys Lys
1 5

<210> 13
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sequence

B31
<400> 13
Arg Arg Met Lys Gln Lys Lys
1 5

<210> 14
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sequence

<400> 14
Arg Arg Met Lys Trp Phe Lys
1 5

<210> 15
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<400> 15
 Arg Xaa Arg Lys Trp Lys Lys
 1 5

B31
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 sequence

<400> 16
 Arg Arg Met Trp Lys Lys Lys
 1 5

<210> 17
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<220>
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<400> 17
 Arg Arg Met Lys Lys Trp Lys
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<210> 18
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<220>
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<400> 18
 Arg Arg Xaa Lys Lys Trp Lys
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<210> 19
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<400> 19
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

B31

<210> 20
 <211> 17
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<400> 20
 Ala Ala Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

<210> 21
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<400> 21
 Ala Arg Ala Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

B31

<210> 22
 <211> 17
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 <222> (17)
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 sequence

<400> 22
 Ala Arg Gln Ala Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

<210> 23
 <211> 17
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<400> 23
 Ala Arg Gln Ile Ala Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

b31

<210> 24
 <211> 17
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 sequence

<400> 24
 Ala Arg Gln Ile Lys Ala Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

<210> 25
 <211> 17
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 <222> (17)
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 sequence

<400> 25
 Ala Arg Gln Ile Lys Ile Ala Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

B31

<210> 26
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<400> 26
 Ala Arg Gln Ile Lys Ile Trp Ala Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

<210> 27
 <211> 17
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 sequence

<400> 27
 Ala Arg Gln Ile Lys Ile Trp Phe Ala Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

<210> 28
 <211> 17
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B31 <400> 28
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Ala Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys

<210> 29
 <211> 17
 <212> PRT
 <213> Artificial Sequence

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 sequence

<400> 29
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Ala Arg Met Lys Trp Lys
 1 5 10 15

Lys

<210> 30
 <211> 17
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 sequence

<400> 30
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Ala Met Lys Trp Lys
 1 5 10 15

Lys

<210> 31
 <211> 17
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 <213> Artificial Sequence

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<400> 31
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Ala Lys Trp Lys
 1 5 10 15

Lys

B31

<210> 32
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 sequence

<400> 32
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Ala Trp Lys
 1 5 10 15

Lys

<210> 33
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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<220>
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 sequence

<400> 33
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Ala Lys
 1 5 10 15

Lys

B31

<210> 34
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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<220>
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 sequence

<400> 34
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Ala
 1 5 10 15

Lys

<210> 35
 <211> 17
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 <213> Artificial Sequence

<220>
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 sequence

<400> 35
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Ala

631

<210> 36
 <211> 7
 <212> PRT
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 <222> (5)
 <223> Xaa is norleucine ornithine

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 36
 Lys Lys Trp Lys Xaa Arg Arg
 1 5

B31
 <210> 37
 <211> 16
 <212> PRT
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<220>
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 <223> bAla

<220>
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<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 37
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

<210> 38
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)
 <223> bAla

<220>
 <221> MOD_RES
 <222> (15)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

B31
 <400> 38
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp
 1 5 10 15

<210> 39
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> bAla

<220>
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 <222> (14)
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<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 39
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys
 1 5 10

<210> 40
 <211> 13
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<220>
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 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 40
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met
 1 5 10

<210> 41
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (12)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
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<400> 41
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg
 1 5 10

B31

<210> 42
 <211> 11
 <212> PRT
 <213> Artificial Sequence

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 <223> bAla

<220>
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 <222> (11)
 <223> AMIDATION

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 <223> Description of Artificial Sequence: Synthetic
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B31 <400> 42
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg
 1 5 10

<210> 43
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> bAla

<220>
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 <222> (10)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 43
 Ala Arg Gln Ile Lys Ile Trp Phe Gln Asn
 1 5 10

<210> 44
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> bAla

<220>
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 <222> (9)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 44
 Ala Arg Gln Ile Lys Ile Trp Phe Gln
 1 5

<210> 45
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> bAla

<220>
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 <222> (7)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
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<400> 45
 Ala Arg Gln Ile Lys Ile Trp
 1 5

B31

<210> 46
 <211> 16
 <212> PRT
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<220>
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 <223> bAla

<220>
 <221> MOD_RES
 <222> (16)
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<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 46
 Ala Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10 15

<210> 47
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> bAla

<220>
 <221> MOD_RES
 <222> (15)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 47
 Ala Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10 15

031

<210> 48
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (14)
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<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 48
 Ala Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10

<210> 49
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (13)
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<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 49
 Ala Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10

B31

<210> 50
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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<400> 50
 Ala Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10

<210> 51
 <211> 11
 <212> PRT
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<220>
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<220>
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 <222> (11)
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 sequence

<400> 51
 Ala Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10

B31

<210> 52
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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<220>
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 <222> (10)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 52
 Ala Gln Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10

<210> 53
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> bAla

<220>
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<220>
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 sequence

<400> 53
 Ala Asn Arg Arg Met Lys Trp Lys Lys
 1 5

B31

<210> 54
 <211> 8
 <212> PRT
 <213> Artificial Sequence

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<220>
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 <222> (8)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 54
 Ala Arg Arg Met Lys Trp Lys Lys
 1 5

<210> 55
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)
 <223> bAla

<220>
 <221> MOD_RES
 <222> (7)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 55
 Ala Arg Met Lys Trp Lys Lys
 1 5

<210> 56
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (12)
 <223> Xaa is norleucine ornithine

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 56
 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Xaa Lys Trp Lys Lys
 1 5 10 15

B31
 <210> 57
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> Xaa is norleucine ornithine

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 57
 Lys Lys Trp Lys Xaa Arg Arg Asn Gln Phe Trp Ile Lys Ile Gln Arg
 1 5 10 15

<210> 58
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 58
 Arg Gln Ile Lys Ile Trp Phe Pro Asn Arg Arg Met Lys Trp Lys Lys
 1 5 10 15

<210> 59
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 sequence

<400> 59

Arg Gln Pro Ile Lys Ile Trp Phe Pro Asn Arg Arg Met Pro Trp Lys
 1 5 10 15

Lys

<210> 60
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 sequence

<400> 60

Arg Gln Ile Lys Ile Phe Phe Gln Asn Arg Arg Met Lys Phe Lys Lys
 1 5 10 15

<210> 61
 <211> 9
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<220>

<221> MOD_RES

<222> (2)

<223> bAla

<220>

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<222> (9)

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<220>

<223> Description of Artificial Sequence: Synthetic
 sequence

<400> 61

Cys Ala Arg Arg Met Lys Trp Lys Lys
 1 5

B31

<210> 62
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (9)
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<220>
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<400> 62
 Cys Arg Arg Met Lys Trp Lys Lys Cys
 1 5

<210> 63
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (20)
 <223> AMIDATION

<220>
 <223> Description of Artificial Sequence: Synthetic
 sequence

<400> 63
 Cys Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 1 5 10 15

Lys Gly Cys Gly
 20

<210> 64
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Penetratin
 variant

<400> 64
 Lys Trp Lys Lys Lys Trp Lys Lys Lys Trp Lys Lys Lys Trp Lys Lys
 1 5 10 15

B31

<210> 65
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
sequence

<400> 65

Lys Trp Lys Lys Lys Trp Lys Lys Lys Gly Gly Cys
1 5 10

<210> 66

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
sequence

<400> 66

Lys Trp Lys Lys
1
